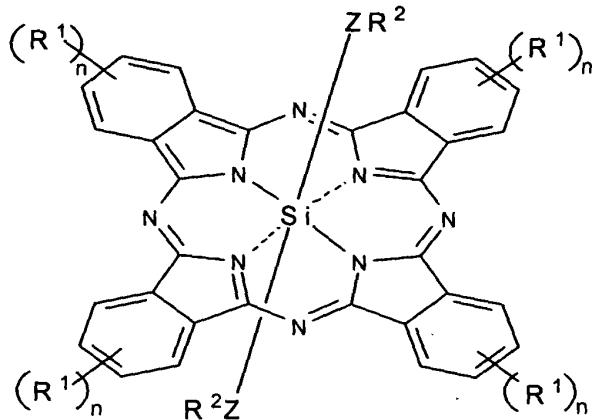


**WHAT IS CLAIMED IS:**

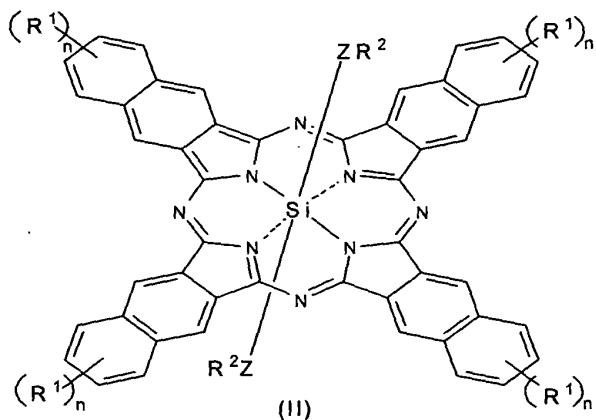
1. An electrophoretic display fluid comprising charged pigment particles dispersed in a mixture comprising a perfluoropolyether and a hydrofluoropolyether.
2. The display fluid of Claim 1 wherein said perfluoropolyether is a homopolymer of trifluoro(trifluoromethyl)oxirane.
3. The display fluid of Claim 1 wherein said perfluoropolyether is selected from Dupont K series or Solvay Solexis HT series.
4. The display fluid of Claim 3 wherein said perfluoropolyether is selected from Solvay Solexis HT170, HT200, HT230 and Dupont K6 and K7.
5. The display fluid of Claim 1 wherein said hydrofluoropolyether is selected from Solvay Solexis ZT series.
6. The display fluid of Claim 5 wherein said hydrofluoropolyether is Solvay Solexis ZT180.
7. The display fluid of Claim 1 wherein said mixture has a weight ratio of hydrofluoropolymers to perfluoropolymers from about 2/98 to about 98/2.
8. The display fluid of Claim 7 wherein said ratio is from about 5/95 to about 50/50.
9. The display fluid of Claim 8 wherein said ratio is from about 8/92 to about 30/70.
10. The display fluid of Claim 1 wherein said pigment particles are primary pigment particles or pigment-containing microcapsules or microparticles.
11. The display fluid of Claim 10 wherein said pigment is TiO<sub>2</sub>, ZnO, or BaSO<sub>4</sub>.
12. The display fluid of Claim 1 wherein said solvent mixture comprises a mixture of a Si phthalocyanine or naphthalocyanine dye and a Cu phthalocyanine or naphthalocyanine dye dissolved therein.

13. The display fluid of Claim 12 wherein said Si phthalocyanine dye is:



(I)

or



(II)

wherein:

each  $n$  is individually 0-4 for silicon phthalocyanine (I) or 0-6 for silicon naphthalocyanine (II);

$R^1$  is independently  $R_f—A—$  (wherein  $R_f$  is as defined below and  $A$  is a single bond,  $—CH_2O—$ ,  $—CH_2CH_2O—$  or  $—CO—$ ), alkyl, heteroalkyl, aryl, heteroaryl, heteroalkylaryl, alkyl-heteroaryl, heteroarylalkyl aryl-heteroalkyl,  $R'O—$ ,  $R'S—$ ,  $R'R''N—$ ,  $R'CO—$ ,  $R'OCO—$ ,  $R'COO—$ ,  $R'CONR''—$ ,  $R'R''NCO—$ ,  $R'NHCONR''—$ ,  $R'SO_2NR''—$  or  $R'R''NSO_2—$  (in which  $R'$  and  $R''$  are independently hydrogen,  $R_f$  (as defined below), alkyl, heteroalkyl, aryl, heteroaryl, heteroarylalkyl, aryl-heteroalkyl,

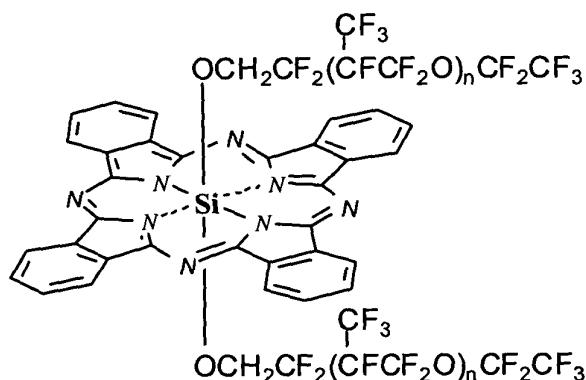
heteroalkyaryl or alkyl-heteroaryl) or halogenated, particularly fluorinated derivatives thereof;

Z is O or NR' wherein R' is defined as above;

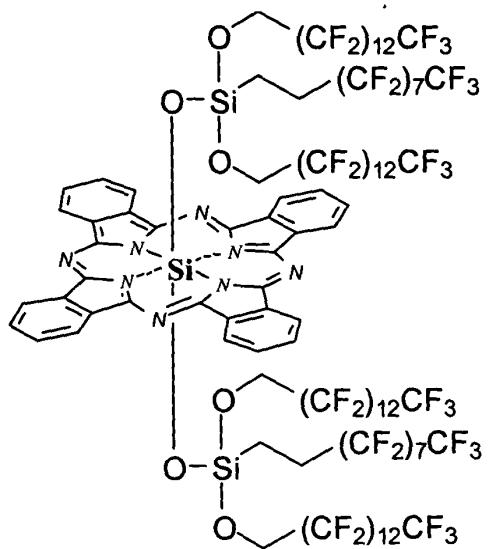
R<sup>2</sup> is hydrogen, R<sub>f</sub>—B— (wherein R<sub>f</sub> is as defined below and B is a single bond, —CH<sub>2</sub>— or —CH<sub>2</sub>CH<sub>2</sub>—), alkyl, heteroalkyl or halogenated, particularly fluorinated derivatives thereof, or —SiR<sup>3</sup>R<sup>4</sup>R<sup>5</sup> wherein R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are independently an alkyl or fluoroalkyl group of 1 to 20 carbon atoms or alkoxy or fluoroalkoxy of 2 to 40 carbon atoms; and

R<sub>f</sub> is a low molecular weight (100-100,000) fluorinated polymeric or oligomeric moiety prepared from one or more types of fluorinated monomers.

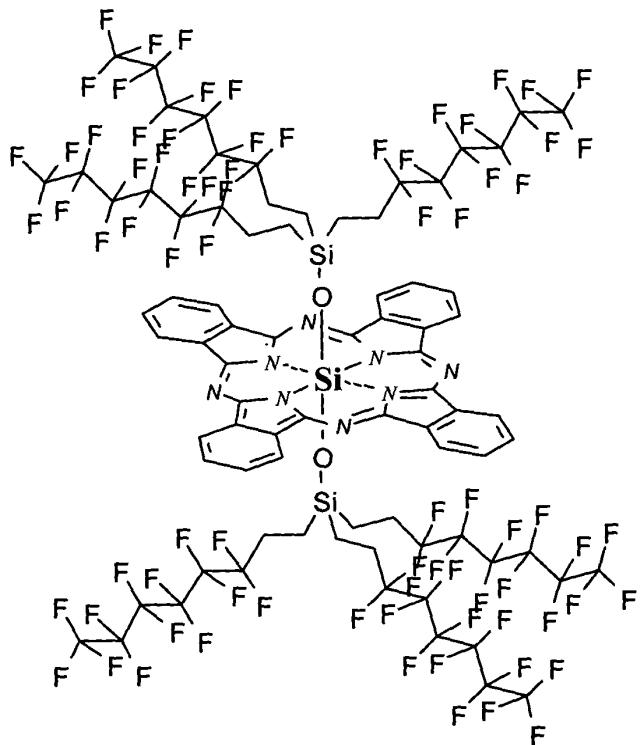
14. The display fluid of Claim 13 wherein said Si phthalocyanine dye is:



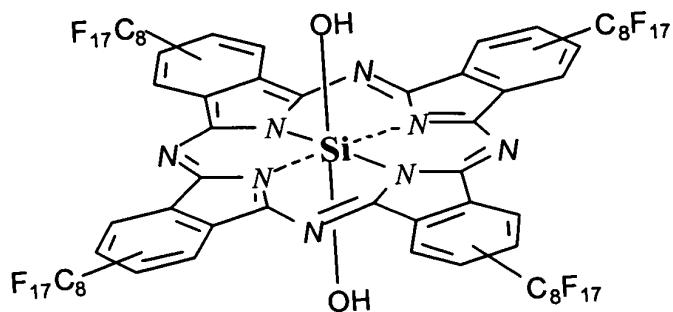
15. The display fluid of Claim 13 wherein said Si phthalocyanine dye is:



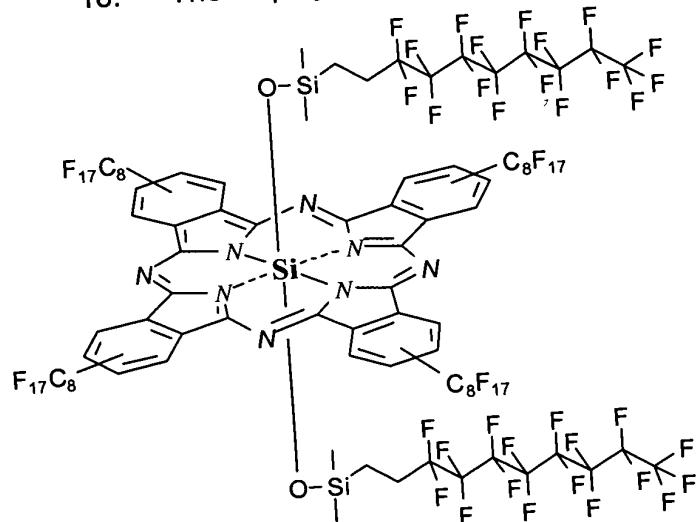
16. The display fluid of Claim 13 wherein said Si phthalocyanine dye is:



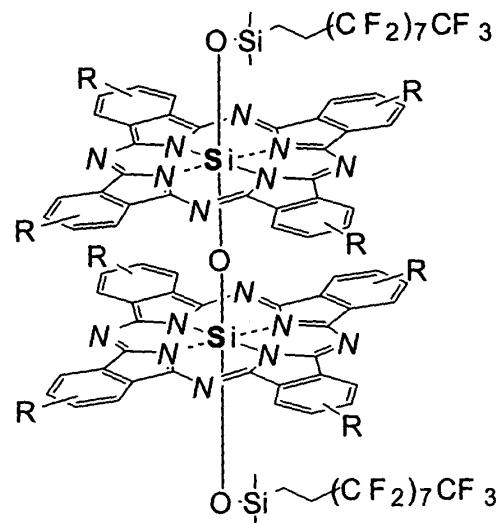
17. The display fluid of Claim 13 wherein said Si phthalocyanine dye is:



18. The display fluid of Claim 13 wherein said Si phthalocyanine dye is:

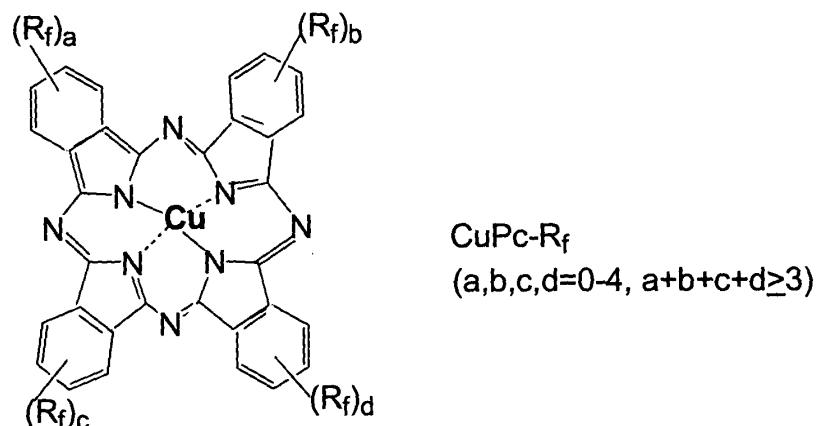


19. The display fluid of Claim 12 wherein said Si phthalocyanine dye is:

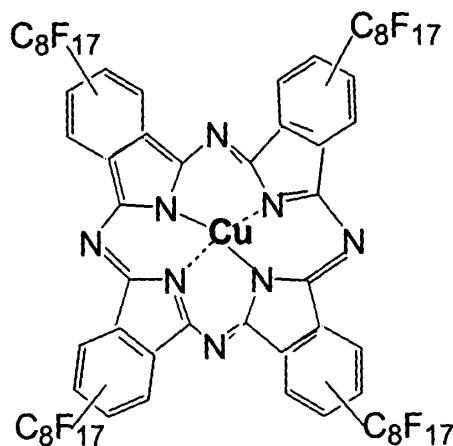


wherein R is H or  $C_mH_nF_p$  in which m is 1-18 and  $n+p \leq 2m+1$ .

20. The display fluid of Claim 12 wherein said Cu phthalocyanine dye is:



21. The display fluid of Claim 20 wherein said Cu phthalocyanine dye is:



22. The display fluid of Claim 12 wherein the weight ratio of the Si dye to the Cu dye is from about 1/10 to about 10/1.

23. The display fluid of Claim 22 wherein said weight ratio of the Si dye to the Cu dye is from about 1/4 to about 4/1.

24. The display fluid of Claim 23 wherein said weight ratio of the Si dye to the Cu dye is from about 1/2 to about 2/1.

25. An electrophoretic display comprising display cells filled with an electrophoretic display fluid comprising charged pigment particles dispersed in a mixture comprising a perfluoropolyethers and a hydrofluoropolyether.

26. The display fluid of Claim 25 wherein said perfluoropolyether is a homopolymer of [trifluoro(trifluoromethyl)oxirane].

27. The display fluid of Claim 25 wherein said perfluoropolyether is selected from Dupont K series or Solvay Solexis HT series.

28. The display fluid of Claim 27 wherein said perfluoropolyether is selected from Solvay Solexis HT170, HT200, HT230 and Dupont K6 and K7.

29. The display fluid of Claim 25 wherein said hydrofluoropolyether is selected from Solvay Solexis ZT series.

30. The display fluid of Claim 29 wherein said hydrofluoropolyether is Solvay Solexis ZT180.

31. The display of Claim 25 wherein said solvent mixture comprises a mixture of a Si phthalocyanine or naphthalocyanine dye and a Cu phthalocyanine or naphthalocyanine dye dissolved therein.

32. The display fluid of Claim 31 wherein the weight ratio of the Si dye to the Cu dye is from about 1/10 to about 10/1.

33. The display fluid of Claim 32 wherein said weight ratio of the Si dye to the Cu dye is from about 1/4 to about 4/1.

34. The display fluid of Claim 33 wherein said weight ratio of the Si dye to the Cu dye is from about 1/2 to about 2/1.

35. The display of Claim 25 which is a conventional partition type display, the display prepared by the microencapsulation process or the display prepared by the microcup technology.